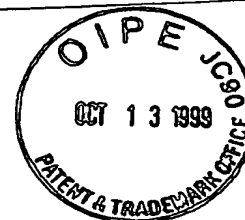


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TROYANOVSKY, Boris

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Gly	Pro	Gly	Pro	His	Arg	Leu	Ser	Ile	Pro	Ser	Leu	Thr	Cys	Asn	Pro
625					630					635					640
Asp	Lys	Thr	Asp	Gly	Pro	Val	Phe	His	Ser	Asn	Thr	Leu	Glu	Arg	Lys
				645					650					655	
Thr	Pro	Ile	Gln	Ile	Leu	Gly	Gln	Glu	Pro	Asp	Ala	Glu	Met	Val	Glu
			660					665					670		



Tyr Leu Ile  
675

<210> 3  
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<212> PRT  
<213> Homo sapiens

<220>  
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<222> ()..)  
<223> Residue 135 = Asn, Ser or Asp

<220>  
<221> VARIANT  
<222> ()..(150)  
<223> Residues 148-150 = Glu-Leu-Ala or Thr-Thr-Pro

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Ser Asp Glu Asn Arg Asn Leu Arg Gln Glu Leu Glu Gly Cys Tyr Glu  
35 40 45  
Lys Val Ala Arg Leu Gln Lys Val Glu Thr Glu Ile Gln Arg Val Ser  
50 55 60  
Glu Ala Tyr Glu Asn Leu Val Lys Ser Ser Ser Lys Arg Glu Ala Leu  
65 70 75 80  
Glu Lys Ala Met Arg Asn Lys Leu Glu Gly Glu Ile Arg Arg Met His  
85 90 95  
Asp Phe Asn Arg Asp Leu Arg Glu Arg Leu Glu Thr Ala Asn Lys Gln  
100 105 110  
Leu Ala Glu Lys Glu Tyr Glu Gly Ser Glu Asp Thr Arg Lys Thr Ile  
115 120 125  
Ser Gln Leu Phe Ala Lys Xaa Lys Glu Ser Gln Arg Glu Lys Glu Lys  
130 135 140  
Leu Glu Ala Xaa Xaa Xaa Thr Ala Arg Ser Thr Asn Glu Asp Gln Arg  
145 150 155 160  
Arg His Ile Glu Ile Arg Asp Gln Ala Leu Ser Asn Ala Gln Ala Lys  
165 170 175  
Val Val Lys Leu Glu Glu Glu Leu Lys Lys Lys Gln Val Tyr Val Asp  
180 185 190  
Lys Val Glu Lys Met Gln Gln Ala Leu Val Gln Leu Gln Ala Ala Cys  
195 200 205  
Glu Lys Arg Glu Gln Leu Glu His Arg Leu Arg Thr Arg Leu Glu Arg

210				215				220							
Glu	Leu	Glu	Ser	Leu	Arg	Ile	Gln	Gln	Arg	Gln	Gly	Asn	Cys	Gln	Pro
225					230					235					240
Thr	Asn	Val	Ser	Glu	Tyr	Asn	Ala	Ala	Ala	Leu	Met	Glu	Leu	Leu	Arg
				245					250					255	
Glu	Lys	Glu	Glu	Arg	Ile	Leu	Ala	Leu	Glu	Ala	Asp	Met	Thr	Lys	Trp
				260					265				270		
Glu	Gln	Lys	Tyr	Leu	Glu	Glu	Asn	Val	Met	Arg	His	Phe	Ala	Leu	Asp
		275					280						285		
Ala	Ala	Ala	Thr	Val	Ala	Ala	Gln	Arg	Asp	Thr	Thr	Val	Ile	Ser	His
		290				295							300		
Ser	Pro	Asn	Thr	Ser	Tyr	Asp	Thr	Ala	Leu	Glu	Ala	Arg	Ile	Gln	Lys
305					310					315					320
Glu	Glu	Glu	Glu	Ile	Leu	Met	Ala	Asn	Lys	Arg	Cys	Leu	Asp	Met	Glu
				325					330					335	
Gly	Arg	Ile	Lys	Thr	Leu	His	Ala	Gln	Ile	Ile	Glu	Lys	Asp	Ala	Met
				340					345				350		
Ile	Lys	Val	Leu	Gln	Gln	Arg	Ser	Arg	Lys	Glu	Pro	Ser	Lys	Thr	Glu
		355					360						365		
Gln	Leu	Ser	Cys	Met	Arg	Pro	Ala	Lys	Ser	Leu	Met	Ser	Ile	Ser	Asn
		370				375					380				
Ala	Gly	Ser	Gly	Leu	Leu	Ser	His	Ser	Ser	Thr	Leu	Thr	Gly	Ser	Pro
385					390					395					400
Ile	Met	Glu	Glu	Lys	Arg	Asp	Asp	Lys	Ser	Trp	Lys	Gly	Ser	Leu	Gly
				405					410					415	
Ile	Leu	Leu	Gly	Gly	Asp	Tyr	Arg	Ala	Glu	Tyr	Val	Pro	Ser	Thr	Pro
			420					425					430		
Ser	Pro	Val	Pro	Pro	Ser	Thr	Pro	Leu	Leu	Ser	Ala	His	Ser	Lys	Thr
		435					440					445			
Gly	Ser	Arg	Asp	Cys	Ser	Thr	Gln	Thr	Glu	Arg	Gly	Thr	Glu	Ser	Asn
		450				455					460				
Lys	Thr	Ala	Ala	Val	Ala	Pro	Ile	Ser	Val	Pro	Ala	Pro	Val	Ala	Ala
465					470					475					480
Ala	Ala	Thr	Ala	Ala	Ala	Ile	Thr	Ala	Thr	Ala	Ala	Thr	Ile	Thr	Thr
				485					490					495	
Thr	Met	Val	Ala	Ala	Ala	Pro	Val	Ala	Val	Ala	Ala	Ala	Ala	Ala	Pro
			500					505					510		
Ala	Ala	Ala	Ala	Ala	Pro	Ser	Pro	Ala	Thr	Ala	Ala	Ala	Thr	Ala	Ala
		515					520					525			
Ala	Val	Ser	Pro	Ala	Ala	Ala	Gly	Gln	Ile	Pro	Ala	Ala	Ala	Ser	Val
		530				535					540				

Ala Ser Ala Ala Ala Val Ala Pro Ser Ala Ala Ala Ala Ala Val  
 545 550 555 560  
 Gln Val Ala Pro Ala Ala Pro Ala Pro Val Pro Ala Pro Ala Leu Val  
 565 570 575  
 Pro Val Pro Ala Pro Ala Ala Ala Gln Ala Ser Ala Pro Ala Gln Thr  
 580 585 590  
 Gln Ala Pro Thr Ser Ala Pro Ala Val Ala Pro Thr Pro Ala Pro Thr  
 595 600 605  
 Pro Thr Pro Ala Val Ala Gln Ala Glu Val Pro Ala Ser Pro Ala Thr  
 610 615 620  
 Gly Pro Gly Pro His Arg Leu Ser Ile Pro Ser Leu Thr Cys Asn Pro  
 625 630 635 640  
 Asp Lys Thr Asp Gly Pro Val Phe His Ser Asn Thr Leu Glu Arg Lys  
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 Tyr Leu Ile  
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 <213> Homo sapiens

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 1 5 10 15  
 Val Ala Ala Ala Ala Thr Ala Ala Ala Ile Thr Ala Thr Ala Ala Thr  
 20 25 30  
 Ile Thr Thr Thr Met Val Ala Ala Ala Pro Val Ala Val Ala Ala Ala  
 35 40 45  
 Ala Ala Pro Ala Ala Ala Ala Ala Pro Ser Pro Ala Thr Ala Ala Ala  
 50 55 60  
 Thr Ala Ala Ala Val Ser Pro Ala Ala Ala Gly Gln Ile Pro Ala Ala  
 65 70 75 80  
 Ala Ser Val Ala Ser Ala Ala Ala Val Ala Pro Ser Ala Ala Ala Ala  
 85 90 95  
 Ala Ala Val Gln Val Ala Pro Ala Ala Pro Ala Pro Val Pro Ala Pro  
 100 105 110  
 Ala Leu Val Pro Val Pro Ala Pro Ala Ala Ala Gln Ala Ser Ala Pro  
 115 120 125  
 Ala Gln Thr Gln Ala Pro Thr Ser Ala Pro Ala Val Ala Pro Thr  
 130 135 140

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       primer for PCR reaction  
  
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primer for PCR reaction

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primer for RACE PCR reaction

<400> 10  
gctgacagtt gccctgacgc tgct 24

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primer for RACE PCR reaction

<400> 11  
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primer for RACE PCR reaction

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<211> 24

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gagcggagat ggaggagtaa ttca

24

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cont